BITSAT Crash Course 2025 Lecture Planner - Physical Chemistry								
S.No.	Batch Name	Subject	Sub- Subject	Chapter Name	Topic	No. of Lecture	Date	Faculty Name
1	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Nature of Matter,Classification of Matter,Properties of Matter and their Measurement, International System of Units (S.I) Uncertainty in Measurement Laws of Chemical Combinations Dalton's Atomic Theory,Atomic Mass, Atomic Mass Unit, Gram Atomic Mass, Average Atomic Mass Molecular Mass,Gram Molecular Mass Average Molecular Mass Formula Mass	1	Wednesday, February 26, 2025	Ritik Srivastava Sir
2	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Some Basic Concepts of Chemistry	Percentage Composition,Empirical and Molecular formula Mole,Vapour density,Atomicity Mole Concept Concentration Terms & Application Stoichiometry and Stoichiometric Calculations Gravimetric Analysis Sequential Reaction,POAC, Oleum Labelling Eudiometry	2	Thursday, February 27, 2025	Ritik Srivastava Sir
3	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Redox Reaction	Introduction Balancing of Redox Reaction Types of Redox Reaction Concept of n-Factor or Valency Factor Law of Equivalence Redox Titration Iodometric and iodimetric Titration, Redox Reactions in Electrode process	1	Friday, February 28, 2025	Ritik Srivastava Sir
4	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Atomic Structure	Introduction: Quantum mechanics Many electron atoms	1	Saturday, March 1, 2025	Ritik Srivastava Sir
5	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Solutions	Binary Solution Concentration Terms Solubility Vapour Pressure Vapour Pressure of Liquid Solutions termination of Vapour Pressure of a Liqu Ideal and Non-ideal Solutions Colligative Properties Osmosis	1	Wednesday, March 5, 2025	Ritik Srivastava Sir
6	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Solutions	Osmotic Pressure Abnormal Molar Masses t Hoff Factor and Abnormality in Molar M Masses Van't Hoff Factor and Abnormali	2	Thursday, March 6, 2025	Ritik Srivastava Sir
7	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Thermodynamics	Basic Concepts Second Law Third Law	1	Friday, March 7, 2025	Ritik Srivastava Sir
8	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Physical and Chemical Equilibria	Concentration Units Solutions Physical Equilibrium: Chemical Equilibria Ionic Equilibria: Factors Affecting Equilibria	1	Saturday, March 8, 2025	Ritik Srivastava Sir
9	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Electrochemistry	Electrolytic Conduction	1	Wednesday, March 12, 2025	Ritik Srivastava Sir

10	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Electrochemistry	Electrolytic Conduction	2	Thursday, March 13, 2025	Ritik Srivastava Sir
11	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Chemical Kinetics	Aspects of Kinetics	1	Saturday, March 15, 2025	Ritik Srivastava Sir
12	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	Chemical Kinetics	Factor Affecting the Rate of the Reactions Surface Chemistry	2	Wednesday, March 19, 2025	Ritik Srivastava Sir
13	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	States of Matter	Measurement Chemical reactions Three states of matter, intermolecular interactions, types of bonding, melting and boiling points	1	Thursday, March 20, 2025	Ritik Srivastava Sir
14	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	The Solid State	Introduction Difference between Crystalline and amorphous solids Classification of crystalline solids Types of symmetry in crystals Some basic terms in crystalline solids Cubic unit cell(Bravais lattice) Mathematical analysis of cubic system Close packing of identical solid spheres Voids or interstitial voids Tetrahedral and Octahedral voids in close packed structure (FCC main) Radius ratio rule (For ionic solids) Structure of Ionic Compounds Effect of temperature and pressure on the crystal structure Defects or imperfections in Solids Properties of Solids:Electrical properties Superconducting materials	1	Friday, March 21, 2025	Ritik Srivastava Sir
15	BITSAT Crash Course 2025	Chemistry	Physical Chemistry	SURFACE CHEMISTRY	Introduction Adsorption Adsorption Isotherm Application of adsorption Catalysis Colloidal State Type of Colloids Preparation of Colloidal Solution Gels Emulsion Application of Colloids	1	Saturday, March 22, 2025	Ritik Srivastava Sir